

What is claimed is:

1. A method of modulating endothelial cell nitric oxide synthase (eNOS) in a cell, tissue, or subject, comprising modulating a PKC  $\beta$ .
2. The method of claim 1, wherein the PKC $\beta$  is PKC $\beta$ 1.
3. The method of claim 1, wherein modulating a PKC  $\beta$  comprises administering to the cell, tissue, or subject an inhibitor of PKC  $\beta$ .
4. The method of claim 3, wherein the inhibitor of PKC  $\beta$  is LY333531.
5. The method of claim 3, wherein the inhibitor of PKC $\beta$  is selected from the group of: an inhibitory PKC $\beta$  antibody, a PKC $\beta$  antisense nucleic acid, an inhibitory PKC $\beta$  binding peptide, and an inhibitory PKC $\beta$  binding small molecule.
6. The method of claim 3, wherein the subject exhibits an insulin related disorder.
7. The method of claim 6, wherein the *insulin related disorder* is *insulin resistance*; *diabetes*, *atherosclerosis*, or *hypertension*.
8. The method of claim 1, wherein modulating a PKC  $\beta$  comprises administering to the cell, tissue, or subject a PKC  $\beta$  agonist.
9. The method of claim 8, wherein the PKC  $\beta$  agonist is selected from the group of: PKC $\beta$  polypeptide or functional fragment or analog thereof; a nucleic acid sequence encoding a PKC $\beta$  polypeptide or a functional fragment or analog thereof; and an agent which increases PKC $\beta$  expression.
10. A method of increasing eNOS in a cell, tissue, or subject, comprising inhibiting a PKC $\beta$ .

11. The method of claim 10, wherein inhibiting a PKC $\beta$  comprises administering to the cell, tissue, or subject a PKC $\beta$  inhibitor.
12. The method of claim 10, wherein the inhibitor of PKC $\beta$  is selected from the group of: an inhibitory PKC $\beta$  antibody, a PKC $\beta$  antisense nucleic acid, an inhibitory PKC $\beta$  binding peptide, and an inhibitory PKC $\beta$  binding small molecule.
13. The method of claim 11, wherein the PKC $\beta$  inhibitor is LY333531.
14. The method of claim 10, wherein eNOS mRNA levels are increased.
15. The method of claim 10, wherein the subject has an insulin related disorder.
16. The method of claim 15, wherein the insulin related disorder is hypertension.
17. The method of claim 15, wherein the insulin related disorder is diabetes.
18. The method of claim 15, wherein the insulin related disorder is atherosclerosis.
19. The method of claim 15, wherein the insulin related disorder is insulin resistance.
20. A method of increasing eNOS in a cell, tissue, or subject, comprising increasing a PI3 kinase activity.
21. The method of claim 20, wherein eNOS mRNA levels are increased.
22. The method of claim 20, wherein the subject has an insulin related disorder.
23. The method of claim 22, wherein the insulin related disorder is hypertension, diabetes, atherosclerosis, ischemia, or insulin resistance.

24. A method of treating hypertension in a subject, comprising:  
identifying a subject in need of treatment for hypertension; and  
administering LY333531, wherein LY333531 increases eNOS expression in a tissue of  
the subject.
25. A method of determining if a subject is at risk for hypertension, comprising:  
evaluating a PKC $\beta$  activity in a cell or tissue of the subject,  
comparing the PKC $\beta$  activity in the cell or tissue of the subject to a control.
26. The method of claim 25, wherein the control is a non-hypertensive subject, or a  
cell or tissue therefrom.